THE MATRIX AND TENSOR QUARTERLY

Three Year Index, Vol. 24-26, 1973-76

This index covers original papers, letters to the Editor, reviews, and references to certain publications of interest to readers. The more general topics such as abstracts of papers and articles, notices of College and University courses and lectures etc., are excluded as being items rather of passing interest.

VOLUME 24, 1973-74

PAPERS

		Page	
No. 1, September 1973			
Notes on coding for communication systems	O.N. GARCIA	1	13
Notes on the stepwise solution of networks with mutual couplings	D.H.S. CHENG	14	19
Notes on the design process in transmission systems	J. MARTIN	20	26
No. 2, December 1973			
A tensorial study of the grid controlled mercury arc rectifier	A.K. MUKHOPADHYAY	39	48
The matrix analysis of the magnetization of phase transformers having asymmetrical cores	J.E. PARTON	49	69
No. 3, March 1974			
The matrix analysis of the magnetization of phase transformers having asymmetrical cores	J.E. PARTON	77	90
Analysis of the thermal radiation problem by Kron's Mesh approach	D.K. BASU and B. BHATTACHARYYA	91	98
No. 4, June 1974			
A direct method for solving large linear algebraic systems	R.W. LONG and D.E. SHERMAN	107	122
Applications and realizability of degree sequences of directed graphs without parallel edges and self-loops	W-K. CHEN	123	131

CORRESPONDENCE

No. 1, September 1973			
S. Austen Stigant (1890 - 1973)		27	29
The scattering matrix and the passivity condition	W-K. CHEN	30	32
No. 2, December 1973			
S. Austen Stigant (1890 - 1973)		70	71
On the sad state of theory	V.E. BENES	71	74
The scattering matrix and the passivity condition	W-K. CHEN	74	75
No. 3, March 1974			
S. Austen Stigant (1890 - 1973)		99	100
On a generalized Einstein formula	R. PAVELLE	100	104
No. 4, June 1974			
S. Austen Stigant (1890 - 1973)		132	133
An extract in retrospect	A. KRON	133	
A preamble to tensors and socio-dynamics	A. TELLDAHL	133	134
Some reflections on the special theory of relativity	E.J. BETINIS	134	136

A note on matrix inversion C.E. PASSARELLO and R.L. HUSTON 136 - 138
The snapshots of industrial dynamic processes L.A. MADONNA 138 - 147

REVIEWS

No. 1, September, 1973

Albert Instein: Creator and rebel, by Banesh Hoffmann (C.T.J.D.) 33
Variational methods in elasticity and plasticity, by Kyuichiro Washizu (J.P.B.) 33 34
Modern data communication – concepts, language and media, by William P. Davenport 34 35
Introductory statistics – a service course, by A.H. Pollard 35

No. 4, June 1974

Circuit theory with computer methods, by O. Wing (M.E.B.) 143

VOLUME 25, 1974 – 75

PAPERS

No. 1, September 1974

Applications and realizability of degree sequences of directed graphs without parallel edges and self-loops W-K.CHEN 1 – 7
Tensors, multilinear forms and their applications J.D. O'KEEFFE 8 – 19
On the Cartan structural equations for the local curvature and torsion of smooth manifolds C.T.J. DODSON 20 – 33

No. 2, December 1974

On the formulation of an economic equation of motion O.I. FRANKSEN 39 – 47
Tensors and sociodynamics – part 1: The postulate of bi-duality A. TELLDAHL 48 – 58
2 x 2 cyclic matrices and Lucas polynomials I.V.V. RAGHAVACHARYULU 59 – 62
K-sets of a graph and vulnerability of communication nets P. KARIVARATHARAJAN and K. THULASIRAMAN 63 – 66

No. 3, March 1975

K-sets of a graph and vulnerability of communication nets P. KARIVARATHARAJAN and K. THULASIRAMAN 77 – 86
A generalized analysis of the electronic voltage stabilizer S.K. PAN and A.K. MUKHOPADHYAY 87 – 99

No. 4, June 1975

The information transmission matrix of special relativity E.J. BETINIS 115 – 121
Tensors and sociodynamics; Part II: A sociodynamic model L.G.A. TELLDAHL 122 – 139

CORRESPONDENCE

No. 1, September 1974

Karl Louis Stewart (1924 – 1974) 33 – 35

No. 2, December 1974

A note on the lincarized strain tensor J.R. SMITH 67 – 69
A new variational principle in electromagnetism I.I.G. CHAMBERS 69 – 71
An extension of the Riesz theorem to multilinear functionals G. WILLIAMS 71 – 75

No. 3, March 1975

A discussion on a generalized Einstein formula — A.M. BUONACRISTIANI and R. PAVELLE — 100 – 101

A note on the Lyapunov functions — J.R. SMITH — 101 – 103

On some characterizations of rectangular partially isometric matrices — P. BASAVAPPA — 103 – 109

A note on the characteristics for second order partial differential equations — J.R. SMITH — 109 – 111

A note on a special tridiagonal matrix — P.R. SCHLEGEL — 111 – 113

No. 4, June 1975

A tribute to the late Austen Stigant — R.E. VOWELS — 140

A new story with an old language — H. KARDESTRUNCER — 140 – 143

A note on the Fredholm theory for the degenerate kernel — J.R. SMITH — 143 – 145

A note on the relationship between the incidence and the adjacency matrix of a graph — D. MINOLI — 145 – 150

A note on the Fokker – Planck – Kolmogorov equation — J.R. SMITH — 150 – 151

VOLUME 26, 1975-76

PAPERS

No. 1, September 1975

On a geometry with a non-symmetric fundamental tensor — R.R. BURMAN — 1 – 10

Properties of second order tensors and their associated linear transformations — J.D. O'KEEFFE — 11 – 21

Philip L. Alger — 22 – 23

No. 2, December 1975

The meaning and scope of systems physiology — U. GESSNER — 39 – 46

A model of the heart and its applications to ECG. Part I – The model — T.K. MITRA and A.K. ROY — 47 – 58

Philip L. Alger — 59 – 60

No. 3, March 1976

The bilinear form and its application to the theory of stress — J.D. O'KEEFFE — 77 – 78

A non-transform method of analysis of a non-linear signal processor — T.K. MITRA — 89 – 96

Philip L. Alger — 97 – 98

No. 4, June 1976

The transient analysis of the single-phase core type transformer — B.K. SARKAR and A.K. MUKHOPADHYAY — 115 – 128

Finite element methods via tensors — H. KARDESTUNCER — 129 – 140

Philip L. Alger — 141

CORRESPONDENCE

No. 1, September 1975

Reflections on the 25th anniversary of the quarterly — 24 – 35

No. 2, December 1975

A note on the Fokker Planck Kolmogorov equation — J.R. SMITH — 61 – 62

A comment on Schlegel's results for a special tridiagonal matrix — O.D. ANDERSON — 62 – 63

The continuity matrices of the flow of l lines in networks 63 - 69

a high speed algorithm for circuit analyses via tensors
M.K. JOARDER, S. PHAUJDAR and B. BHATTACHARYYA 70 - 74

On some post RAAG activities 74

No. 3, March 1976

An extract in retrospect F.A. ROSSINI 103

On the behaviour of light rays in the gravitational field T. DATTA 104 – 105

Observers for systems with extended equations of state
S.K. SARKAR, V.K. AATRE and R. HASTINGS-JAMES 106 – 109

A recurrence relation for two special determinants P.G. CHUDLEIGH 109 – 113

No. 4, June 1976

An extract in retrospect G. KRON 146

A preamble to an enumeration of certain generalized arrays associated with ballot theorems
D.E. JACKSON and R.C. ENTRINGER 146 – 148

The use of tensor products for solving matrix equations Y. KUO 148 – 151